

Title (en)

IMPLICIT TEMPORAL NETWORK ACCESS LOAD DISTRIBUTION

Title (de)

IMPLIZITE ZEITLICHE NETZWERKZUGRIFFSLASTVERTEILUNG

Title (fr)

RÉPARTITION IMPLICITE TEMPORELLE DE CHARGE D'ACCÈS AU RÉSEAU

Publication

EP 3711367 C0 20240103 (EN)

Application

EP 18800632 A 20181109

Priority

- US 201762585249 P 20171113
- EP 2018080800 W 20181109

Abstract (en)

[origin: WO2019092196A1] The load on Random Access channels (N)PRACH (i.e., Msg1) is temporally distributed, to better handle synchronized access peaks from machine type devices. Access attempts by wireless devices are distributed in time, based on their identities (e.g., IMSI, which is used for the distribution of paging load) or random draw. The distribution restricts when 5 wireless devices can access the network, either based on System Frame Number or on random access occurrence. The method is implicit, i.e., after the initial System Information (SI) acquisition, wireless devices will automatically apply temporal network access load distribution according to the configuration provided in SI without any need for explicit signaling or re- acquisition of SI. Embodiments of the invention may be advantageously applied to any wireless 10 communication network supporting machine type communications, such as GPRS/EGPRS/ECGSM-IoT and UMTS/HSPA, as well as non-3GPP radio access technologies such as LoRa, Sigfox, and Ingenu.

IPC 8 full level

H04W 48/10 (2009.01); **H04W 74/08** (2024.01)

CPC (source: EP US)

H04L 1/1642 (2013.01 - US); **H04W 48/10** (2013.01 - EP US); **H04W 72/0446** (2013.01 - US); **H04W 74/0833** (2013.01 - US); **H04W 74/0833** (2013.01 - EP)

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Participating member state (EPC – UP)

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EP 2018080800 W 20181109; EP 18800632 A 20181109; US 201816763281 A 20181109